

**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

|                        |                     |
|------------------------|---------------------|
| Application Number     | 09/884,526          |
| Filing Date            | June 19, 2001       |
| First Named Inventor   | David Meeker et al. |
| Art Unit               | 1632                |
| Examiner Name          | S. Chen             |
| Attorney Docket Number | 5030                |

Total Number of Pages in This Submission

**ENCLOSURES (check all that apply)**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment / Response<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Assignment Papers (for an Application)<br><input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) ____ | <input type="checkbox"/> After Allowance Communication to Group<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input type="checkbox"/> Other Enclosure(s) (please identify below): |
| Remarks   |   |  |

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

|                         |                                    |
|-------------------------|------------------------------------|
| Firm or Individual name | Jennifer L. Dupre, Reg. No. 41,722 |
| Signature               | <i>Jennifer L. Dupre</i>           |
| Date                    | July 21, 2003                      |

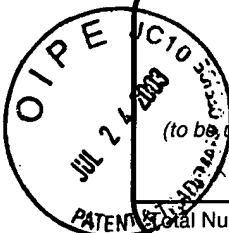
**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

|                       |                |           |                       |      |               |
|-----------------------|----------------|-----------|-----------------------|------|---------------|
| Typed or printed name | Michele Silver | Signature | <i>Michele Silver</i> | Date | July 21, 2003 |
|-----------------------|----------------|-----------|-----------------------|------|---------------|

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: C mmlssi ner f r Pat nts, P.O. B x 1450, Al xandria, VA 22313-1450.

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|                        |                     |
|------------------------|---------------------|
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| Filing Date            | June 19, 2001       |
| First Named Inventor   | David Meeker et al. |
| Art Unit               | 1632                |
| Examiner Name          | S. Chen             |
| Attorney Docket Number | 5030                |

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

☒ A Power of Attorney or Authorization of Agent is submitted herewith.

OR

☒ Please change the correspondence address for the above-identified application to:

☒ Customer Number **24536**

Place Customer Number Barcode Label here  
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OR

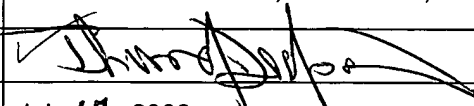
|   |                           |       |                |     |            |
|---|---------------------------|-------|----------------|-----|------------|
| <input checked="" type="checkbox"/> Firm or Individual Name | Genzyme Corporation       |       |                |     |            |
| Address   | 15 Pleasant St. Connector |       |                |     |            |
| Address   | Legal Department          |       |                |     |            |
| City  | Framingham                |       |                |     |            |
| Country   | USA                       | State | MA             | ZIP | 01701-9322 |
| Telephone   | (508) 270-2555            | Fax   | (508) 872-5415 |     |            |

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

## **SIGNATURE of Applicant or Assignee of Record**

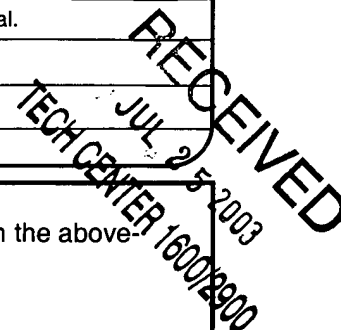
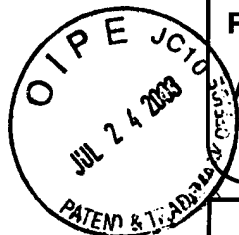
|           |   |
|-----------|---|
| Name      | Thomas J. DesRosier, Senior V.P., General Counsel, & Chief Patent Counsel           |
| Signature |  |
| Date      | July 17, 2003   |

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

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|                               |                     |
|-------------------------------|---------------------|
| <b>Applicati n Number</b>     | 09/884,526          |
| <b>Filing Date</b>            | June 19, 2001       |
| <b>First Named Invent r</b>   | David Meeker et al. |
| <b>Art Unit</b>               | 1632                |
| <b>Examiner Name</b>          | S. Chen             |
| <b>Attorney Docket Number</b> | 5030                |

I hereby appoint:

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24536

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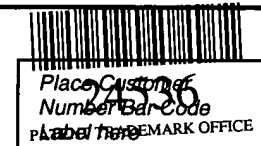
| Name                   | Registration Number |
|------------------------|---------------------|
| Richard D. Allison     | 31,584              |
| Isabelle A.S. Blundell | 43,321              |
| Robert J. Cobert       | 36,108              |
| Thomas J. DesRosier    | 30,168              |

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

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24536

**OR**

PATENT TRADEMARK OFFICE

☒ Firm or  
Individual Name

Genzyme Corporation

Address 15 Pleasant St. Connector

Address Legal Department

City Framingham State MA ZIP 01701-9322

Country USA

Telephone (508) 270-2555 Fax (508) 872-5415

I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

Name Thomas J. DesRosier

Signature

Date July 17, 2003

Telephone (508) 270-2555

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

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|                               |                     |
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| <b>First Named Inventor</b>   | David Meeker et al. |
| <b>Art Unit</b>               | 1632                |
| <b>Examiner Name</b>          | S. Chen             |
| <b>Attorney Docket Number</b> | 5030                |

I hereby appoint:

☒ Practitioners at Customer Number

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OR

☒ Practitioner(s) named below:

| Name              | Registration Number |
|-------------------|---------------------|
| Deborah A. Dugan  | 37,315              |
| Jennifer L. Dupre | 41,722              |
| Madge Kanter      | 35,211              |
| Elizabeth Lassen  | 31,845              |

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

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OR

☒ Practitioners at Customer Number

24536

OR

☒ Firm or  
Individual Name

Genzyme Corporation

Address

15 Pleasant St. Connector

Address

Legal Department

City

Framingham

State

MA

ZIP

01701-9322

Country

USA

Telephone

(508) 270-2555

Fax

(508) 872-5415

I am the:

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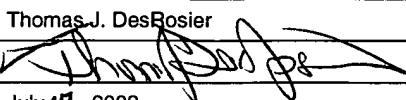
Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

Name

Thomas J. DesRosier

Signature



Date

July 17, 2003

Telephone

(508) 270-2555

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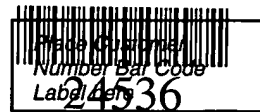
|                               |                     |
|-------------------------------|---------------------|
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| <b>Filing Dat</b>             | June 19, 2001       |
| <b>First Named Inv ntor</b>   | David Meeker et al. |
| <b>Art Unit</b>               | 1632                |
| <b>Examiner Name</b>          | S. Chen             |
| <b>Attorney Docket Number</b> | 5030                |

I hereby appoint:

☒ Practitioners at Customer Number

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OR

☒ Practitioner(s) named below:

PATENT TRADEMARK OFFICE

| Name              | Registration Number |
|-------------------|---------------------|
| Bart G. Newland   | 31,282              |
| Jennifer Tegfeldt | 31,310              |
|                   |                     |
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as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

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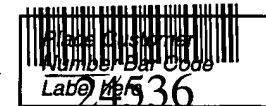
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OR



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|   |                           |       |                |     |            |
|---|---------------------------|-------|----------------|-----|------------|
| <input checked="" type="checkbox"/> Firm or Individual Name | Genzyme Corporation       |       |                |     |            |
| Address   | 15 Pleasant St. Connector |       |                |     |            |
| Address   | Legal Department          |       |                |     |            |
| City  | Framingham                | State | MA             | ZIP | 01701-9322 |
| Country   | USA                       |       |                |     |            |
| Telephone   | (508) 270-2555            | Fax   | (508) 872-5415 |     |            |

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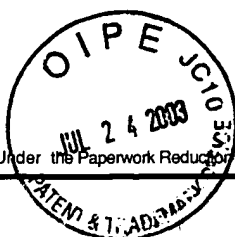
|           |                     |           |                |
|-----------|---------------------|-----------|----------------|
| Name      | Thomas J. DesRosier |           |                |
| Signature |                     |           |                |
| Date      | July 17, 2003       | Telephone | (508) 270-2555 |

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**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: David Meeker et al.

Application No./Patent No.: 09/884,526

Filed/Issue Date: June 19, 2001

Entitled: COMBINATION ENZYME REPLACEMENT AND GENE THERAPY FOR LYSOSOMAL STORAGE DISEASES

GENZYME CORPORATION

a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest

The extent (by percentage) of its ownership interest is 100 %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 011131, Frame 0316, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

July 17, 2003

Date

(508) 270-2555

Telephone Number



Signature

Thomas J. DesRosier

Typed or printed name

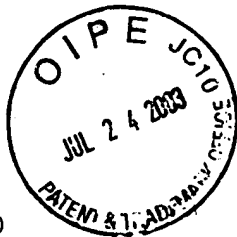
Senior Vice President, General Counsel  
and Chief Patent Counsel

Title

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NOVEMBER 29, 2000

PTAS

PENNIE & EDMONDS LLP  
LAURA A. CORUZZI  
1155 AVENUE OF THE AMERICAS  
NEW YORK, NY 10036



\*101483073A\*

10228-003

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/22/2000

REEL/FRAME: 011131/0316  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
MEEKER, DAVID

DOC DATE: 08/16/2000

ASSIGNOR:  
CHENG, SENG H.

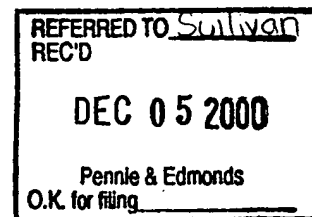
DOC DATE: 08/03/2000

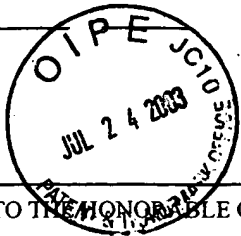
ASSIGNEE:  
GENZYME CORPORATION  
ONE KENDALL SQUARE  
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 60212377  
PATENT NUMBER:

FILING DATE: 06/19/2000  
ISSUE DATE:

MARY BENTON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



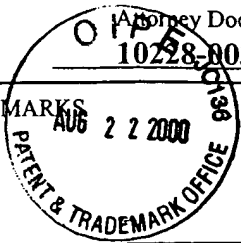


10-10-2000



101483073

Express Mail No.: EL 501 739 026 US

Attorney Docket Number  
10228-003-888TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS  
Box Assignment  
Washington, DC 20231

8/22/00

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): **David Meeker and Seng H. Cheng**Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: **August 3, 2000 and August 16, 2000**

2. Name and address of receiving party(ies):

Name: **Genzyme Corporation**Address: **One Kendall Square****Cambridge, Massachusetts 02139**

Country (if other than USA):

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JUL 25 2003  
TECH CENTER 1600/2900

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) **60/212,377**

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

PENNIE & EDMONDS LLP  
1155 Avenue of the Americas  
New York, NY 100366. Number of applications and patents involved: **1**7. Total fee (37 CFR 3.41): **\$ 40.00**  
Please charge to the deposit account listed in Section 8.8. Deposit account number:  
**16-1150**

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.***Laura A. Coruzzi**

Name of Person Signing

Reg. No. 30,742

Signature

**August 22, 2000**

Date

By: **Stephen K. Sullivan**

Name of Person Signing

Reg. No. 43,171

Signature

Total number of pages including cover sheet:

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Washington, D.C. 20231

10/06/2000 AMWED1 00000065 161150 60212377

01 FC:581

40.00 CH



# ASSIGNMENT

WHEREAS, WE, **David MEEKER** and **Seng H. CHENG**, ASSIGNORS, citizens of the United States, residing at 93 rue Jouffroy, Paris 75017 France and 50 Wall Street, Wellesley, Massachusetts 02481, respectively, are the inventors of the invention in **COMBINATION ENZYME REPLACEMENT AND GENE THERAPY FOR LYSOSOMAL STORAGE DISEASES** for which we have filed an application for a Patent of the United States

- ☑ which is identified by Pennie & Edmonds LLP docket no. 10228-003-888
- ☑ which was filed on **June 19, 2000**, Provisional Application No. 60/212,377

and WHEREAS, **Genzyme Corporation**, ASSIGNEE, a corporation organized and existing under the laws of the Commonwealth of Massachusetts, having an address at One Kendall Square, Cambridge, Massachusetts 02139, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 8/16/2000, 2000 *David MEEKER* L.S.  
**David MEEKER**

Date 8/3, 2000 *Seng H. CHENG* L.S.  
**Seng H. CHENG**

State of MA )  
 County of Middlesex ) SS.:

In the State of Massachusetts, county of Middlesex, on Aug. 17, 2000, before me, Mary Ellen Hamilton, Notary Public, personally appeared **David MEEKER**, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal  
*Mary Ellen Hamilton*  
**MARY ELLEN HAMILTON**  
 Notary Public  
 State of MA )  
 County of Middlesex ) SS.:  
 My Comm. Expires June 19, 2003

In the State of Massachusetts, county of Middlesex, on Aug. 3, 2000, before me, Taryn Antalek, Notary Public, personally appeared **Seng H. CHENG**, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal  
*Taryn Antalek*  
**TARYN ANTALÉK**  
 Notary Public  
 My Commission Expires 5-28-2004